



US ARMY CORPS  
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New England District

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Contract No. DACW33-01-D-0004  
Delivery Order No. 02  
October 2003

## *Final Report*

# **SUMMER 2003 QUAHOG SURVEY AND DATA REPORT**

**RHODE ISLAND REGION LONG-TERM DREDGED  
MATERIAL DISPOSAL SITE EVALUATION PROJECT**

**Final**

**Summer 2003 Quahog Survey and Data Report**

**Rhode Island Region  
Long-Term Dredged Material Disposal Site Evaluation Project**

**Contract Number DACW33-01-D-0004  
Delivery Order No. 02**

**to**

**U.S. Army Corps of Engineers  
North Atlantic Division  
New England District  
696 Virginia Road  
Concord, MA 01742-2751**

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**October 23, 2003**

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## **1. INTRODUCTION**

In response to requests from former Rhode Island Governor Lincoln C. Almond and U.S. Senator Jack Reed, the U.S. Environmental Protection Agency (EPA) and the U.S. Army Corps of Engineers (Corps) initiated an evaluation project to determine the feasibility of designation of a long-term disposal site in the Rhode Island Region (RIR) and adjacent waters under section 102 (c) of the MPRSA in a forthcoming EIS. The EIS will evaluate other possible alternatives including other open water disposal sites, other disposal and management options, and the no action alternative.

This survey is one of a series of surveys being conducted during the summer of 2003 to collect additional biological and physical data to better characterize two areas in Rhode Island Sound (Alternative Area E and Alternative Area W) in which future dredged material disposal sites are being considered (Figure 1). This survey will provide ocean quahog (*Artica islandica*) population information, as well as information on other bivalve species that may be collected, in order to evaluate and compare the two potential locations.

This is the second quahog population survey conducted under this project in an attempt to characterize this resource in terms of population abundance. In this report, survey methods are described in Section 2. A chronological summary of survey activities and observations is provided in Section 3. Section 4 presents survey results. Survey problems encountered, corrective actions taken, and recommendations for future surveys are described in Section 5.

## **2. SURVEY METHODS**

The sampling methods used for this field survey are described in detail in the Quality Assurance Project Plan (QAPP) (Battelle, 2001) and are summarized below in Section 2.1.

### **2.1 Methods**

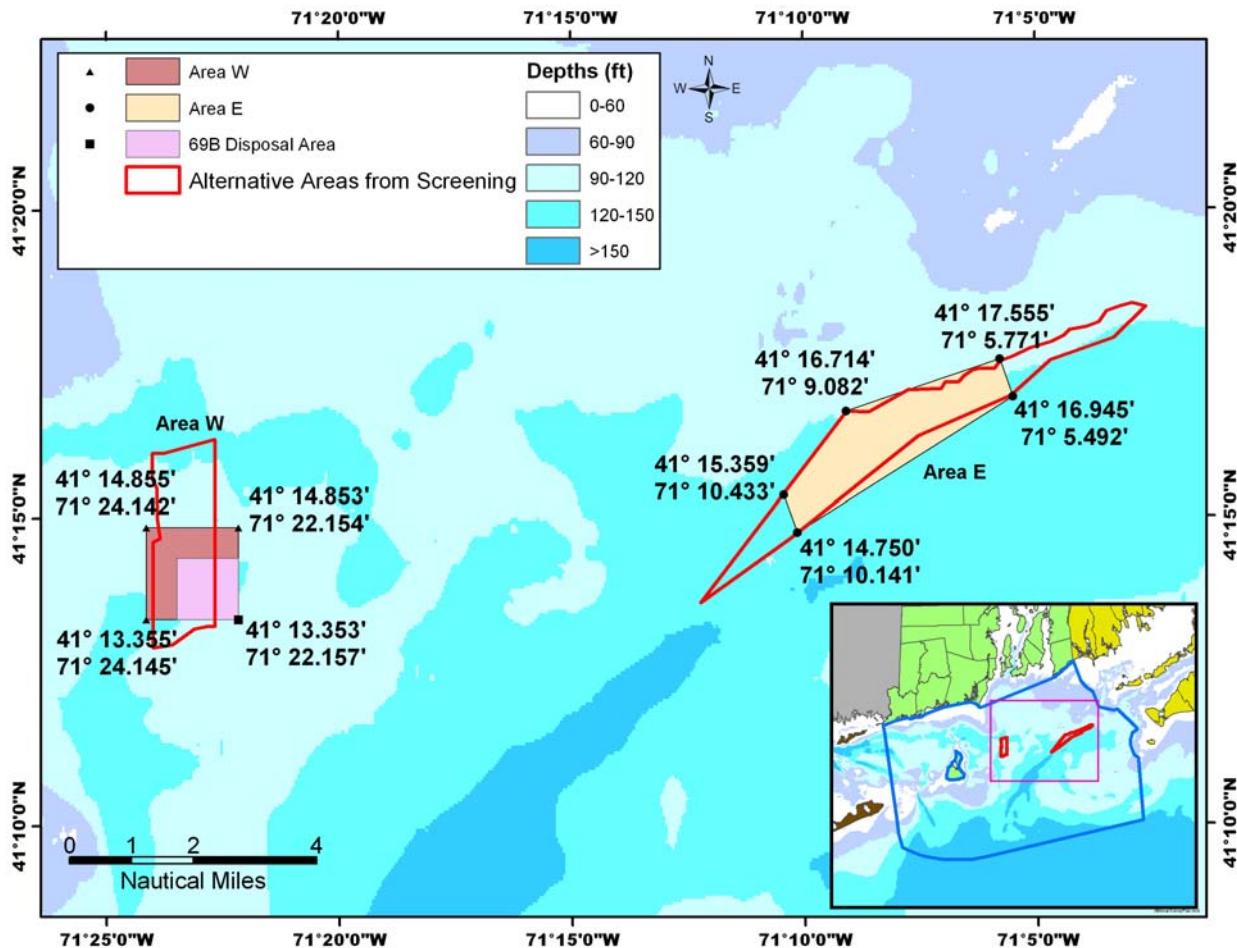
The F/V *Misty Marie*, owned and operated by Captain John Roberts, served as the sampling platform during the survey. The survey personnel are listed in Table 1.

**Table 1. Survey Personnel.**

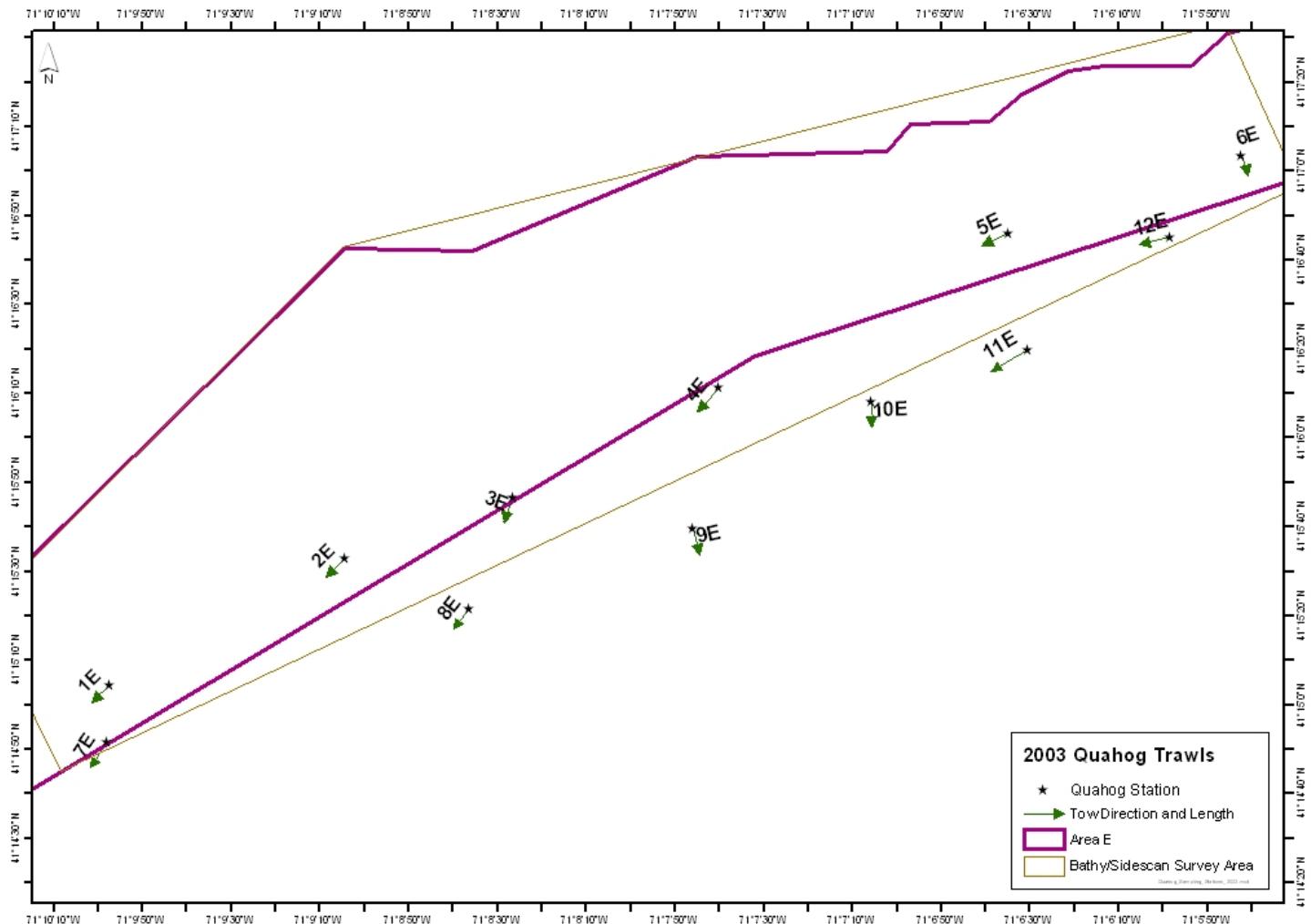
<b>August Survey</b>		
<b>Battelle</b>	C. Gagnon	Physical Oceanographer
	S. Lachance	Marine Ecologist
<b>Subcontractors</b>	J. Roberts	Captain, F/V <i>Misty Marie</i>
	D. Capak	Mate, F/V <i>Misty Marie</i>

Bivalves were collected using a commercial hydraulic dredge system at each of the stations in Alternative Area E (Figure 2) and Alternative Area W (Figure 3). The dredge had a blade width of four feet (Figure 4) with bar spacing of 1.25". Only the commercially harvestable portion of the population was collected and counted in this study. Twelve tows were conducted in Alternative Area E, and 4 tows were conducted in Alternative Area W. Start and end times and coordinates for

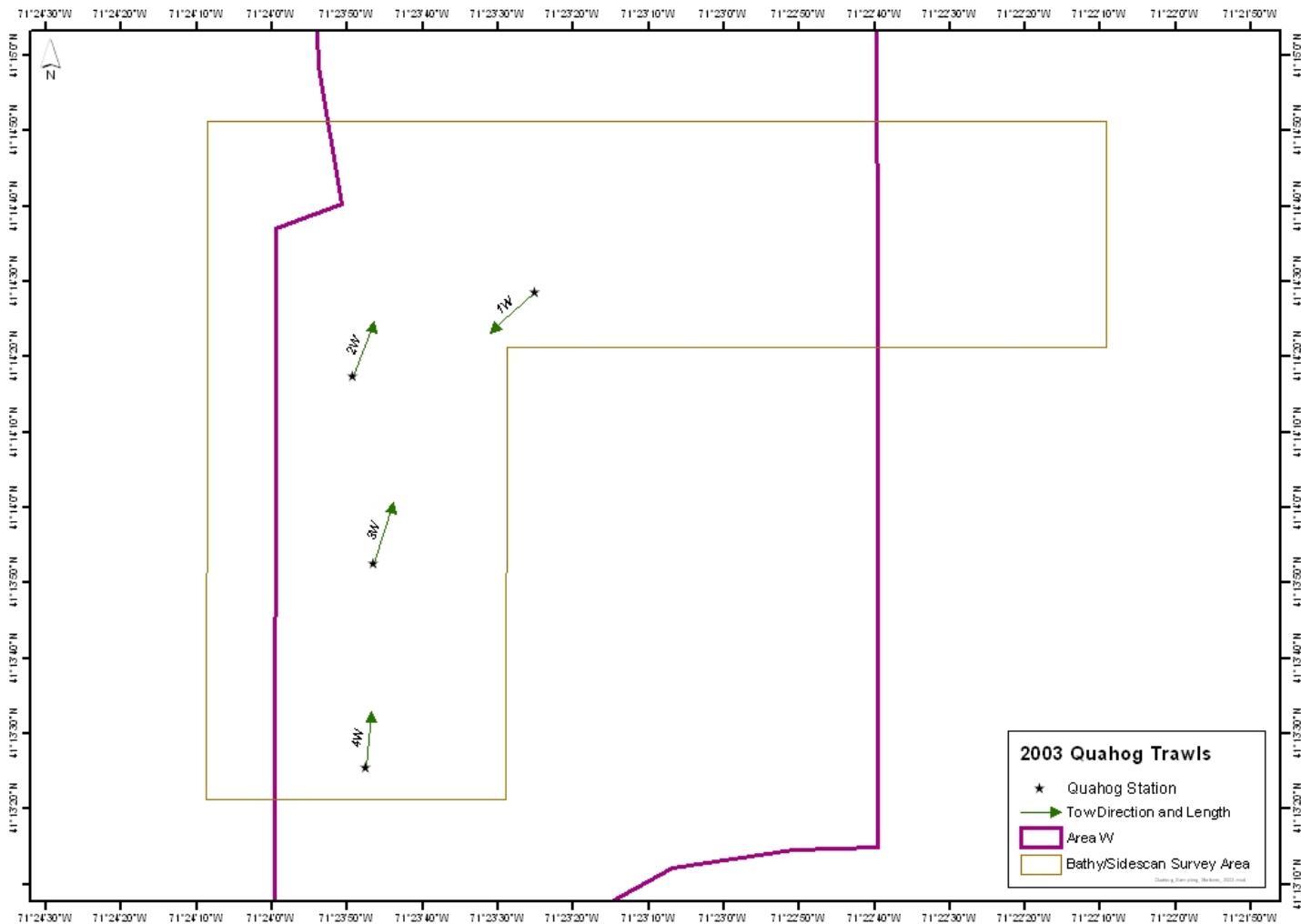
each tow were recorded on the station log by the Battelle physical oceanographer. In addition, the coordinates were recorded and stored electronically. Tows were conducted for a period of four minutes.



**Figure 1. Location of Alternative Areas E and W.**



**Figure 2. Location of Quahog Tows in Area E.**



**Figure 3. Location of Quahog Tows in Area W.**



**Figure 4. Commercial Hydraulic Dredge System Used During Quahog Survey.**

Sampling locations were chosen based on a recent side scan study of the sea floor within the alternative areas (Battelle, 2003a), as well as bottom type information obtained during finfish trawls (Battelle, 2003b). Portions of the survey areas with significant hard bottom returns on the side scan or areas containing rocks and boulders were avoided during the quahog tows. As planned, six of the 12 tows in Area E were required to be located to the south and outside the boundaries of the proposed alternative area. Likewise, the tows at Area W were limited to the western portion of the area because the bottom of the northern section was deemed unsuitable for dredging.

The catch was emptied onto the deck, and commercial shellfish species were identified and divided into bushel baskets. If the catch was less than one bushel basket, the entire catch was weighed, measured, and counted. If the catch was more than one bushel basket, then the total number of baskets was recorded and one basket was selected for counting, weighing, and measuring. Shell

length (the maximum anterior to posterior distance) was measured to the nearest 0.5 cm and recorded on field data sheets. As the clams were counted and measured, they were transferred to smaller (2-3 gallon) buckets for weighing. Each bucket was weighed on a spring scale. Weights for each of the buckets were recorded. Total catch weight was estimated from the weight of one bushel times the total number of bushels in the catch. Once the measurements were taken, the catch was returned to the sea.

## 2.2 Deviations

None

## 3. SURVEY CHRONOLOGY

**Wednesday, August 13, 2003**

0600	Depart New Bedford, MA for Area W.
0930	Arrive Area W.
0949	Set tow 1W.
0953	Haul tow 1W.
1021	Set tow 2W.
1026	Haul tow 2W.
1041	Set tow 3W.
1045	Haul tow 3W.
1057	Set tow 4W.
1101	Haul tow 4W.
1110	Depart for Area E.
1213	Arrive Area E.
1214	Set tow 7E.
1219	Haul tow 7E.
1227	Set tow 1E.
1232	Haul Tow 1E. Dredge was flipped over upon recovery. Tow no good, redone.
1300	Set tow 1E again.
1304	Haul tow 1E.
1323	Set tow 2E.
1328	Haul Tow 2E
1340	Set tow 8E.
1344	Haul tow 8E.
1354	Set tow 3E.
1358	Haul tow 3E.
1409	Set tow 9E.
1413	Haul tow 9E.
1425	Set tow 4E.
1429	Haul tow 4E.
1438	Set tow 10E.
1442	Haul tow 10E. No clams in dredge, redo tow.
1504	Set tow 10E. Hose parted, haul gear for repairs.
1627	Set tow 10E.
1631	Haul tow 10E. Still no clams. Hard bottom, tow deemed acceptable.
1640	Set tow 11E.

1644	Haul tow 11E.
1652	Set tow 5E.
1657	Haul tow 5E.
1707	Set tow 12E.
1711	Haul tow 12E.
1721	Set tow 6E.
1725	Haul tow 6E.
1730	Survey complete, depart for New Bedford.
2015	Arrive New Bedford.

The sampling date, time, and start and end points for all trawls are presented in Table 2.

**Table 2. Summary Information for Quahog Tow Locations in Areas W and E, August 2003.**

Date	Time	Latitude	Longitude	Area	Comments
08/13/2003	0949	41° 14.476'N	-071° 23.418'W	W	1W start
	0953	41° 14.388'N	-071° 23.517'W		1W end
	1021	41° 14.291'N	-071° 23.819'W		2W start
	1026	41° 14.410'N	-071° 23.774'W		2W end
	1041	41° 13.876'N	-071° 23.775'W		3W start
	1045	41° 14.011'N	-071° 23.730'W		3W end
	1057	41° 13.427'N	-071° 23.792'W		4W start
	1101	41° 13.550'N	-071° 23.780'W		4W end
	1214	41° 14.861'N	-071° 09.963'W	E	7E start
	1219	41° 14.764'N	-071° 10.028'W		7E end
	1300	41° 15.075'N	-071° 09.954'W		1E start
	1304	41° 15.010'N	-071° 10.021'W		1E end
	1323	41° 15.550'N	-071° 09.071'W		2E start
	1328	41° 15.478'N	-071° 09.145'W		2E end
	1340	41° 15.361'N	-071° 08.603'W		8E start
	1344	41° 15.282'N	-071° 08.663'W		8E end
	1354	41° 15.780'N	-071° 08.441'W		3E start
	1358	41° 15.683'N	-071° 08.477'W		3E end
	1409	41° 15.663'N	-071° 07.764'W		9E start
	1413	41° 15.561'N	-071° 07.740'W		9E end
	1425	41° 16.191'N	-071° 07.667'W		4E start
	1429	41° 16.097'N	-071° 07.748'W		4E end
	1627	41° 16.136'N	-071° 07.097'W		10E start
	1631	41° 16.039'N	-071° 07.092'W		10E end
	1640	41° 16.332'N	-071° 06.510'W		11E start
	1644	41° 16.250'N	-071° 06.647'W		11E end
	1652	41° 16.768'N	-071° 06.581'W		5E start
	1657	41° 16.722'N	-071° 06.679'W		5E end
	1707	41° 16.754'N	-071° 05.973'W		12E start
	1711	41° 16.725'N	-071° 06.089'W		12E end
	1721	41° 17.059'N	-071° 05.709'W		6E start
	1725	41° 16.983'N	-071° 05.684'W		6E end

## 4. SURVEY RESULTS

### 4.1 Overview

The Summer 2003 quahog survey was successfully completed on August 13, 2003. All data including numbers collected and lengths are included as Appendix A. The calculations of density using the tow length and area are included as Appendix B.

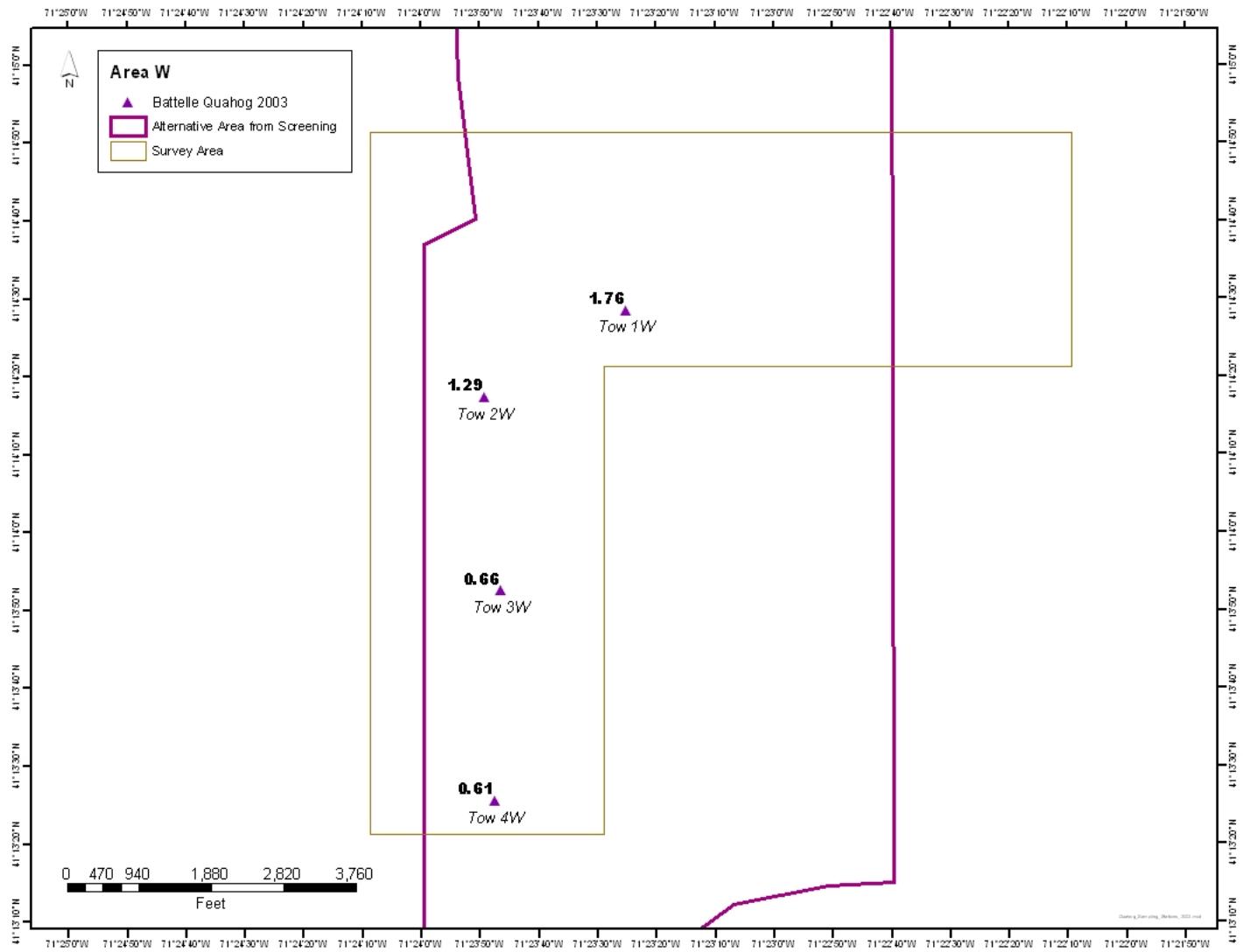
Table 3 provides a summary of quahog numbers, densities, lengths, and weights per tow. A total of 2,070 quahogs were collected in the 16 tows conducted during this survey. All quahogs that were collected were ocean quahogs (*Artica islandica*); no other species were observed. The tows conducted at Alternative Area W collected significantly more quahogs than those conducted at Alternative Area E (average no. of quahogs/tow = 299.8 and 72.6 individuals, respectively). No quahogs were collected during three tows within Alternative Area E.

**Table 3. Quahog Numbers, Densities, Lengths, and Weights Observed during the Summer 2003 Sampling in Alternative Area E and Alternative Area W.**

Area E	Tow	No. Collected	Density (number/m <sup>2</sup> )	Length (cm)	Std. Dev	Estimated Weight (g)
Area E	Tow 1	135	0.73	9.5	0.71	36,741.0
	Tow 2	394	1.91	9.2	0.64	46,266.4
	Tow 3	123	0.54	9.5	0.60	34,926.61
	Tow 4	2	0.01	8.3	0.35	453.6
	Tow 5	18	0.09	9.0	0.54	7,257.5
	Tow 6	25	0.14	9.0	0.56	7,711.1
	Tow 7	124	0.51	9.6	0.60	34,473.0
	Tow 8	21	0.11	9.3	0.64	5,896.7
	Tow 9	29	0.12	9.4	0.73	9,071.9
	Tow 10	0	0	0	0	0
	Tow 11	0	0	0	0	0
	Tow 12	0	0	0	0	0
Average		72.6	0.35	9.2	0.4	18,483.9
Area W	Tow 1	460	1.76	9.1	0.65	42,184.1
	Tow 2	362	1.29	9.3	0.65	41,276.9
	Tow 3	207	0.66	9.1	0.59	42,637.7
	Tow 4	170	0.61	10.0	0.67	46,266.4
Average		299.8	1.08	9.4	0.09	43,091.3

Because quahogs are found living within the sediment, density (i.e., number/area) may be a more appropriate measure than number of quahogs when comparing this resource between two regions. For this survey, quahog density was calculated by dividing the number of quahogs collected in a given tow by the area covered by that tow. The area of the tow was calculated as the distance of the tow multiplied by the width of the dredge (i.e., four feet). Similar to numbers of quahogs, density

of quahogs was significantly higher in Alternative Area W (mean density = 1.08 individuals/m<sup>2</sup>) than in Alternative Area E (mean density = 0.35 individuals/m<sup>2</sup>; p < 0.05).



**Figure 5. Quahog Density (Number per m<sup>2</sup>) in Area W.**

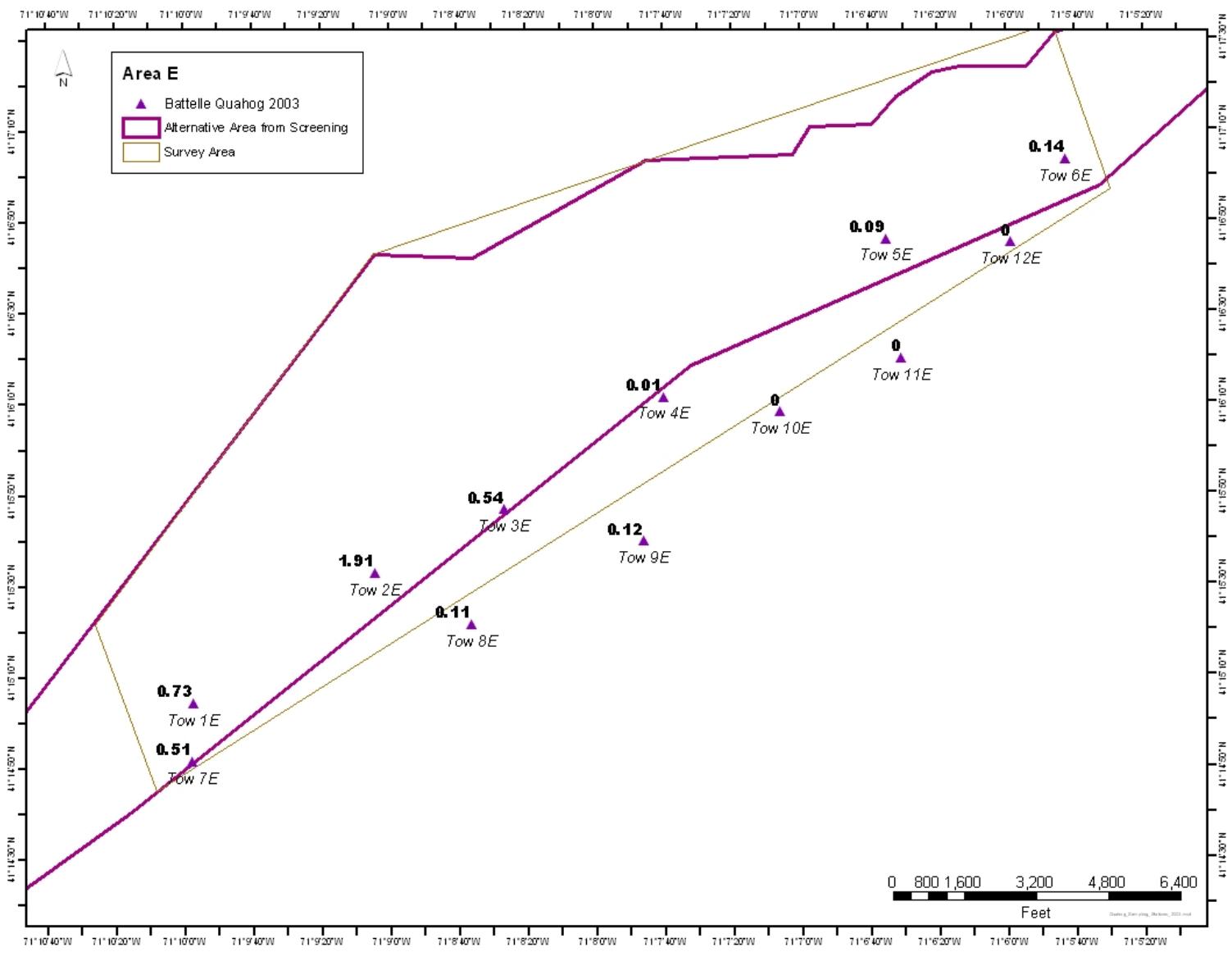


Figure 6. Quahog Density (Number per m<sup>2</sup>) in Area E.

The sediment bottom type in the western portion of Area W consists primarily of uniform fine sands with very little bottom expressions (rocks, boulders, etc.). Figure 5 shows similar quahog density for each sampling station, which is likely related to the uniformity of the bottom type in that area. Area E consists of a number of different habitat types, with coarse to medium sand in the southwest portion of the area, silty-fine sand along the southern portion of the area, and significant surface expressions consisting of rocks and boulders comprising the northern and eastern portion of the area. Figure 6 shows higher quahog densities in the southwest portion of the area, which corresponds to the presence of coarse to medium sand, and few to no quahogs found in areas of siltier and finer sands. These results are consistent with the field studies conducted by Fogarty (1979, 1981) that demonstrated that ocean quahogs prefer sediments with high amounts of medium sand and shell fragments. Fogarty also found that quahog densities were lowest in high silt/clay or coarse sand-gravel sediment.

The average lengths of individual quahogs were similar in Alternative Area E (mean length = 9.2 cm) and Alternative Area W (mean length = 9.4 cm). The largest quahogs overall were observed in Tow number 4 in Alternative Area W (mean length = 10.0 cm). The length of quahogs from this tow averaged 10 cm.

In addition to measurements of length, one bushel of quahogs collected on each tow was weighed and the total weight for all bushels collected was estimated. With the exception of tow number 4 from Alternative Area E, which had an estimated weight of 453 g, estimated weights of quahog bushels ranged from 5,896.7 g to 107,800 g at Alternative Area E. Because numbers and densities of quahogs were much greater at Alternative Area W, weights were expected to be greater. Estimated weights of quahogs from Alternative Area W ranged from 46,266 g to 105,460 g.

## **5. PROBLEMS EXPERIENCED AND CORRECTIVE ACTIONS**

### **5.1 Technical**

None

### **5.2 Schedule**

None

## **6. REFERENCES**

Battelle. 2001. Final Quality Assurance Project Plan Rhode Island Sound Disposal Site Study. Task 1 QAPP: Field Sampling, Chemical, and Toxicity Testing. Prepared under Contract No. DACW33-01-D-0004, Delivery Order No. 02. September 2001.

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Fogarty, M.J. 1979. Assessment of the ocean quahog, *Arctica islandica*, resource in Rhode Island Sound and south of Martha's Vineyard, MA. RIDEM, Division of Fisheries and Wildlife.

Fogarty, M.J. 1981. Distribution and relative abundance of the ocean quahog *Arctica islandica* in Rhode Island Sound and off Martha's Vineyard, Massachusetts. *Journal of Shellfish Research*. 1(1):33-39.

## **APPENDIX A**

### **Quahog Sample Length Data**

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	1	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	2	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	3	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	4	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	5	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	6	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	7	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	8	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	9	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	10	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	11	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	12	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	13	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	14	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	15	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	16	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	17	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	18	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	19	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	20	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	21	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	22	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	23	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	24	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	25	7.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	26	10.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	27	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	28	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	29	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	30	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	31	11
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	32	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	33	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	34	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	35	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	36	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	37	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	38	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	39	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	40	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	41	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	42	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	43	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	44	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	45	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	46	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	47	9.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	48	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	49	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	50	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	51	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	52	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	53	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	54	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	55	7.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	56	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	57	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	58	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	59	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	60	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	61	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	62	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	63	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	64	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	65	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	66	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	67	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	68	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	69	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	70	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	71	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	72	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	73	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	74	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	75	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	76	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	77	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	78	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	79	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	80	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	81	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	82	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	83	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	84	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	85	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	86	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	87	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	88	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	89	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	90	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	91	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	92	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	93	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	94	8.5

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	95	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	96	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	97	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	98	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	99	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	100	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	101	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	102	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	103	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	104	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	105	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	106	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	107	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	108	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	109	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	110	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	111	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	112	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	113	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	114	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	115	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	116	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	117	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	118	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	119	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	120	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	121	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	122	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	123	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	124	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	125	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	126	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	127	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	128	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	129	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	130	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	131	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	132	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	133	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	134	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	135	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	136	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	137	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	138	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	139	7.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	140	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	141	9

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	142	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	143	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	144	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	145	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	146	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	147	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	148	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	149	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	150	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	151	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	152	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	153	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	154	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	155	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	156	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	157	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	158	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	159	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	160	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	161	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	162	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	163	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	164	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	165	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	166	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	167	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	168	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	169	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	170	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	171	10
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	172	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	173	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	174	9.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	175	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	176	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	177	11
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	178	8
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	179	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	180	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	181	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	182	9
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	183	8.5
13-Aug-03	W	1	41°14.476	071°23.418	41°14.388	071°23.517	184	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	1	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	2	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	3	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	4	8

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	5	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	6	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	7	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	8	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	9	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	10	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	11	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	12	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	13	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	14	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	15	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	16	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	17	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	18	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	19	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	20	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	21	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	22	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	23	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	24	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	25	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	26	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	27	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	28	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	29	7
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	30	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	31	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	32	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	33	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	34	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	35	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	36	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	37	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	38	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	39	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	40	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	41	11
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	42	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	43	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	44	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	45	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	46	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	47	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	48	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	49	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	50	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	51	9

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	52	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	53	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	54	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	55	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	56	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	57	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	58	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	59	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	60	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	61	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	62	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	63	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	64	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	65	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	66	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	67	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	68	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	69	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	70	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	71	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	72	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	73	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	74	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	75	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	76	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	77	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	78	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	79	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	80	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	81	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	82	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	83	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	84	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	85	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	86	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	87	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	88	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	89	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	90	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	91	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	92	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	93	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	94	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	95	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	96	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	97	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	98	11

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	99	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	100	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	101	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	102	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	103	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	104	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	105	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	106	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	107	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	108	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	109	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	110	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	111	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	112	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	113	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	114	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	115	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	116	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	117	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	118	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	119	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	120	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	121	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	122	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	123	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	124	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	125	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	126	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	127	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	128	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	129	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	130	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	131	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	132	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	133	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	134	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	135	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	136	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	137	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	138	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	139	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	140	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	141	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	142	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	143	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	144	8
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	145	9

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	146	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	147	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	148	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	149	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	150	10.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	151	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	152	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	153	10
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	154	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	155	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	156	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	157	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	158	9
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	159	9.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	160	8.5
13-Aug-03	W	2	41°14.291	071°23.819	41°14.410	071°23.774	161	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	1	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	2	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	3	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	4	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	5	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	6	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	7	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	8	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	9	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	10	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	11	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	12	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	13	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	14	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	15	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	16	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	17	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	18	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	19	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	20	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	21	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	22	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	23	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	24	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	25	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	26	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	27	10.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	28	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	29	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	30	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	31	9.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	32	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	33	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	34	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	35	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	36	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	37	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	38	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	39	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	40	10.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	41	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	42	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	43	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	44	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	45	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	46	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	47	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	48	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	49	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	50	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	51	10.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	52	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	53	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	54	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	55	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	56	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	57	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	58	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	59	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	60	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	61	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	62	7.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	63	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	64	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	65	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	66	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	67	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	68	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	69	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	70	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	71	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	72	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	73	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	74	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	75	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	76	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	77	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	78	9

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	79	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	80	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	81	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	82	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	83	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	84	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	85	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	86	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	87	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	88	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	89	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	90	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	91	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	92	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	93	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	94	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	95	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	96	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	97	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	98	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	99	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	100	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	101	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	102	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	103	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	104	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	105	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	106	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	107	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	108	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	109	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	110	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	111	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	112	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	113	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	114	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	115	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	116	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	117	10.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	118	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	119	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	120	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	121	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	122	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	123	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	124	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	125	9.5

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	126	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	127	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	128	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	129	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	130	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	131	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	132	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	133	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	134	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	135	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	136	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	137	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	138	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	139	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	140	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	141	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	142	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	143	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	144	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	145	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	146	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	147	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	148	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	149	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	150	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	151	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	152	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	153	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	154	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	155	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	156	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	157	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	158	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	159	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	160	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	161	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	162	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	163	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	164	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	165	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	166	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	167	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	168	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	169	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	170	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	171	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	172	8.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	173	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	174	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	175	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	176	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	177	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	178	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	179	8.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	180	10
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	181	8
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	182	9.5
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	183	9
13-Aug-03	W	3	41°13.876	071°23.775	41°14.011	071°23.730	184	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	1	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	2	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	3	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	4	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	5	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	6	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	7	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	8	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	9	7
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	10	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	11	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	12	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	13	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	14	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	15	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	16	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	17	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	18	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	19	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	20	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	21	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	22	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	23	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	24	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	25	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	26	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	27	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	28	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	29	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	30	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	31	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	32	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	33	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	34	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	35	8

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	36	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	37	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	38	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	39	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	40	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	41	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	42	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	43	8
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	44	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	45	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	46	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	47	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	48	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	49	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	50	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	51	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	52	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	53	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	54	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	55	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	56	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	57	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	58	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	59	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	60	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	61	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	62	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	63	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	64	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	65	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	66	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	67	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	68	11
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	69	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	70	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	71	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	72	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	73	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	74	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	75	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	76	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	77	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	78	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	79	11
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	80	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	81	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	82	10

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	83	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	84	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	85	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	86	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	87	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	88	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	89	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	90	11
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	91	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	92	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	93	8
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	94	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	95	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	96	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	97	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	98	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	99	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	100	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	101	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	102	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	103	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	104	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	105	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	106	8
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	107	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	108	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	109	8
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	110	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	111	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	112	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	113	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	114	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	115	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	116	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	117	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	118	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	119	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	120	11
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	121	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	122	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	123	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	124	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	125	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	126	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	127	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	128	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	129	9.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	130	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	131	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	132	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	133	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	134	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	135	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	136	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	137	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	138	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	139	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	140	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	141	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	142	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	143	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	144	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	145	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	146	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	147	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	148	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	149	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	150	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	151	8
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	152	8.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	153	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	154	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	155	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	156	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	157	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	158	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	159	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	160	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	161	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	162	10.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	163	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	164	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	165	9
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	166	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	167	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	168	9.5
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	169	10
13-Aug-03	W	4	41°13.427	071°23.792	41°13.550	071°23.780	170	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	1	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	2	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	3	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	4	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	5	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	6	9.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	7	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	8	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	9	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	10	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	11	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	12	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	13	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	14	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	15	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	16	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	17	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	18	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	19	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	20	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	21	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	22	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	23	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	24	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	25	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	26	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	27	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	28	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	29	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	30	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	31	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	32	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	33	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	34	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	35	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	36	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	37	11
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	38	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	39	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	40	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	41	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	42	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	43	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	44	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	45	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	46	11
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	47	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	48	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	49	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	50	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	51	11
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	52	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	53	9

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	54	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	55	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	56	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	57	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	58	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	59	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	60	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	61	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	62	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	63	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	64	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	65	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	66	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	67	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	68	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	69	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	70	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	71	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	72	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	73	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	74	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	75	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	76	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	77	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	78	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	79	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	80	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	81	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	82	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	83	11
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	84	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	85	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	86	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	87	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	88	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	89	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	90	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	91	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	92	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	93	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	94	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	95	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	96	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	97	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	98	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	99	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	100	10

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	101	8.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	102	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	103	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	104	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	105	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	106	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	107	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	108	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	109	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	110	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	111	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	112	10.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	113	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	114	10
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	115	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	116	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	117	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	118	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	119	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	120	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	121	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	122	9.5
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	123	9
13-Aug-03	E	7	41°14.861	071°09.963	41°14.764	071°10.028	124	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	1	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	2	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	3	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	4	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	5	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	6	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	7	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	8	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	9	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	10	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	11	7.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	12	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	13	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	14	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	15	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	16	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	17	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	18	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	19	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	20	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	21	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	22	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	23	9

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	24	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	25	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	26	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	27	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	28	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	29	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	30	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	31	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	32	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	33	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	34	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	35	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	36	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	37	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	38	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	39	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	40	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	41	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	42	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	43	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	44	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	45	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	46	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	47	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	48	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	49	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	50	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	51	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	52	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	53	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	54	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	55	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	56	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	57	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	58	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	59	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	60	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	61	8
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	62	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	63	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	64	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	65	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	66	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	67	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	68	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	69	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	70	10

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	71	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	72	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	73	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	74	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	75	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	76	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	77	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	78	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	79	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	80	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	81	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	82	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	83	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	84	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	85	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	86	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	87	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	88	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	89	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	90	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	91	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	92	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	93	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	94	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	95	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	96	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	97	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	98	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	99	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	100	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	101	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	102	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	103	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	104	8.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	105	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	106	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	107	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	108	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	109	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	110	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	111	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	112	11
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	113	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	114	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	115	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	116	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	117	9

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13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	118	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	119	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	120	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	121	8
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	122	10.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	123	8
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	124	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	125	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	126	9.5
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	127	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	128	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	129	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	130	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	131	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	132	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	133	10
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	134	9
13-Aug-03	E	1	41°15.075	071°09.954	41°15.010	071°10.021	135	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	1	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	2	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	3	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	4	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	5	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	6	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	7	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	8	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	9	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	10	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	11	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	12	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	13	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	14	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	15	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	16	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	17	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	18	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	19	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	20	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	21	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	22	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	23	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	24	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	25	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	26	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	27	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	28	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	29	9

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	30	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	31	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	32	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	33	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	34	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	35	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	36	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	37	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	38	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	39	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	40	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	41	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	42	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	43	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	44	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	45	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	46	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	47	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	48	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	49	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	50	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	51	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	52	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	53	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	54	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	55	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	56	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	57	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	58	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	59	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	60	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	61	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	62	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	63	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	64	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	65	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	66	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	67	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	68	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	69	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	70	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	71	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	72	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	73	7.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	74	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	75	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	76	9.5

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	77	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	78	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	79	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	80	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	81	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	82	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	83	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	84	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	85	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	86	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	87	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	88	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	89	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	90	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	91	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	92	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	93	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	94	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	95	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	96	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	97	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	98	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	99	7.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	100	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	101	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	102	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	103	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	104	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	105	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	106	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	107	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	108	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	109	7.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	110	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	111	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	112	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	113	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	114	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	115	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	116	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	117	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	118	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	119	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	120	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	121	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	122	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	123	8.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	124	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	125	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	126	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	127	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	128	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	129	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	130	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	131	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	132	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	133	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	134	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	135	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	136	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	137	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	138	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	139	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	140	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	141	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	142	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	143	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	144	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	145	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	146	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	147	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	148	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	149	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	150	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	151	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	152	8
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	153	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	154	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	155	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	156	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	157	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	158	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	159	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	160	10
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	161	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	162	8.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	163	9.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	164	10.5
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	165	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	166	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	167	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	168	9
13-Aug-03	E	2	41°15.550	071°09.071	41°15.478	071°09.145	169	8.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	1	10

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	2	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	3	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	4	10.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	5	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	6	8
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	7	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	8	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	9	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	10	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	11	10.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	12	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	13	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	14	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	15	8
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	16	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	17	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	18	9.5
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	19	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	20	9
13-Aug-03	E	8	41°15.361	071°08.603	41°15.282	071°08.663	21	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	1	8
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	2	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	3	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	4	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	5	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	6	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	7	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	8	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	9	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	10	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	11	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	12	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	13	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	14	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	15	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	16	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	17	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	18	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	19	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	20	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	21	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	22	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	23	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	24	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	25	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	26	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	27	9

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	28	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	29	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	30	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	31	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	32	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	33	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	34	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	35	8
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	36	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	37	8
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	38	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	39	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	40	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	41	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	42	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	43	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	44	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	45	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	46	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	47	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	48	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	49	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	50	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	51	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	52	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	53	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	54	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	55	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	56	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	57	10.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	58	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	59	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	60	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	61	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	62	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	63	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	64	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	65	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	66	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	67	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	68	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	69	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	70	10.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	71	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	72	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	73	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	74	10

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13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	75	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	76	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	77	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	78	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	79	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	80	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	81	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	82	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	83	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	84	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	85	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	86	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	87	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	88	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	89	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	90	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	91	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	92	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	93	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	94	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	95	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	96	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	97	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	98	10.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	99	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	100	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	101	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	102	10.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	103	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	104	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	105	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	106	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	107	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	108	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	109	10.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	110	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	111	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	112	11.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	113	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	114	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	115	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	116	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	117	10
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	118	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	119	9
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	120	9.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	121	8.5

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Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	122	8.5
13-Aug-03	E	3	41°15.780	071°08.441	41°15.683	071°08.477	123	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	1	9.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	2	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	3	9.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	4	8
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	5	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	6	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	7	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	8	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	9	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	10	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	11	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	12	11
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	13	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	14	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	15	9.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	16	10.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	17	8
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	18	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	19	10
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	20	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	21	9.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	22	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	23	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	24	8
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	25	9.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	26	10.5
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	27	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	28	9
13-Aug-03	E	9	41°15.663	071°07.764	41°15.561	071°07.740	29	9.5
13-Aug-03	E	4	41°16.191	071°07.667	41°16.097	071°07.748	1	8.5
13-Aug-03	E	4	41°16.191	071°07.667	41°16.097	071°07.748	2	8
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	1	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	2	8.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	3	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	4	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	5	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	6	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	7	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	8	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	9	7.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	10	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	11	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	12	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	13	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	14	9

Date	Area	Trawl #	Latitude Begin	Longitude Begin	Latitude End	Longitude End	Sample #	Length (cm)
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	15	8
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	16	9
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	17	9.5
13-Aug-03	E	5	41°16.768	071°06.581	41°16.722	071°06.679	18	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	1	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	2	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	3	10
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	4	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	5	7.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	6	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	7	8
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	8	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	9	8.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	10	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	11	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	12	8.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	13	8.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	14	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	15	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	16	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	17	10
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	18	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	19	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	20	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	21	9
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	22	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	23	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	24	9.5
13-Aug-03	E	6	41°17.059	071°05.709	41°16.983	071°05.684	25	9

**APPENDIX B**

**Count/Density Data for Quahog Samples**

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Site	Tow Start Coordinates	Tow Stop Coordinates	Tow Length (m)	Tow Time (min.)	# Clams per Tow	Measured Mean Length (cm) x ± S.D.	Estimated Weight (g) x ± S.D.	Area of tow (length * 1.2192)	Density (#/m <sup>2</sup> )
Tow 1E	41°15.075 / 071°09.954	41°15.010 / 071°10.021	152	4	135	9.49 ± 0.71	36,740.98	185.3184	0.73
Tow 2E	41°15.550 / 071°09.071	41°15.478 / 071°09.145	169	5	394	9.195 ± 0.64	107,800.76	206.0448	1.91
Tow 3E	41°15.780 / 071°08.441	41°15.683 / 071°08.477	187	4	123	9.46 ± 0.595	34,926.61	227.9904	0.54
Tow 4E	41°16.191 / 071°07.667	41°16.097 / 071°07.748	208	4	2	8.25 ± 0.353	453.6	253.5936	0.01
Tow 5E	41°16.768 / 071°06.581	41°16.722 / 071°06.679	161	5	18	9 ± 0.542	7,257.48	196.2912	0.09
Tow 6E	41°17.059 / 071°05.709	41°16.983 / 071°05.684	145	4	25	9.04 ± 0.557	7,711.07	176.784	0.14
Tow 7E	41°14.861 / 071°09.963	41°14.764 / 071°10.028	200	5	124	9.59 ± 0.595	34,473.02	243.84	0.51
Tow 8E	41°15.361 / 071°08.603	41°15.282 / 071°08.663	151	4	21	9.285 ± 0.644	5,896.70	184.0992	0.11
Tow 9E	41°15.663 / 071°07.764	41°15.561 / 071°07.740	192	4	29	9.41 ± 0.732	9,071.85	234.0864	0.12
Tow 10E	41°16.136 / 071°07.097	41°16.039 / 071°07.092	179	4	0	0	0	218.2368	0.00
Tow 11E	41°16.332 / 071°06.510	41°16.250 / 071°06.647	244	4	0	0	0	297.4848	0.00
Tow 12E	41°16.754 / 071°05.973	41°16.725 / 071°06.089	170	4	0	0	0	207.264	0.00

Tow 1W	41°14.476 / 071°23.418	41°14.388 / 071°23.517	214	4	460	9.12 ± 0.653	105,460.23	260.9088	1.76
Tow 2W	41°14.291 / 071°23.819	41°14.410 / 071°23.774	230	5	362	9.28 ± 0.652	92,873.04	280.416	1.29
Tow 3W	41°13.876 / 071°23.775	41°14.011 / 071°23.730	258	4	207	9.14 ± 0.586	47,967.40	314.5536	0.66
Tow 4W	41°13.427 / 071°23.792	41°13.550 / 071°23.780	228	4	170	10.026 ± 0.674	46,266.42	277.9776	0.61